BRUHAT BANGALORE MAHANAGARA PALIKE

PACKAGE-9

NAME OF WORK : IMPROVEMENTS TO ROADS AND DRAINS AT VSINGAPURA, SINGAPURA GARDEN VALMIKI NAGARA, ASHERAYA LAYOUT, KUVEMPUNAGARA & NAIDU LAYOUT IN WARD NO. 11 KUVEMPUNAGARA.

Sl.No.	Description of work	Mesurement					Qty	Rate	Amount
		Unit	No	L	B	D			
1	KSRB 2-1.1: Earthwork in surface excavation in ordinary soil for leveling and lowering the ground manually (other than foundation of buildings, culverts, roads drains and trenches of pipe line and cables) and removing the excavated stuff to a distance not exceeding 50m and lift up lift 1.5, excavated surface leveled and neatly dressed disposed earth to be leveled after breaking of clods and neatly dressed as per Specification. No. KBS 2.1(a)/2.3.1(P.No.5-I.No.2.1)								
	Desilting drain								
	SINGAPUR LAYOUT								
	6th Main Road	Cum	2	152.90	0.70	0.40	85.62		
	6th Main Road 4th Cross	Cum	2	73.70	0.60	0.40	35.38		
	6th Main Road 3rd Cross	Cum	2	50.60	0.65	0.40	26.31		
	6th Main Road 2nd Cross	Cum	2	37.40	0.60	0.40	17.95		
	6th Main Road 1st Cross	Cum	2	25.30	0.60	0.40	12.14		
	5th Main Road	Cum	2	162.58	0.60	0.40	78.04		
	4th Main Road	Cum	2	156.53	0.70	0.40	87.66		
	KUVEMPU NAGAR								
	4th Cross Road	Cum	1	197.67	0.60	0.40	47.44		
	5th Cross Road	Cum	2	77.44	0.65	0.40	40.27		
	Masthi venkatesha iyanger road 4th cross road upto end	Cum	2	180.00	0.60	0.40	86.40		
	NAIDU LAYOUT								
	upto RMC Plant	Cum	1	30.00	0.60	0.40	7.20		
	SINGAPURA GARDEN								
	2nd cross	Cum	2	180.00	0.50	0.40	72.00		
	3rd cross (right side sri sai baba provision store)	Cum	2	185.00	0.50	0.40	74.00		
	4th cross	Cum	2	196.00	0.60	0.40	94.08		
	1st cross	Cum	2	165.00	0.55	0.40	72.60		
	Basic rate							157.00	
	Area weightage 6%							9.42	
	Total						**837.09**	**166.42**	**139308.98**
2	Removing B.S.slab of Drain and stacking.(P.No.25-I.No.5.32)								
	Open Drain (Sides & Bottom)								
	Drain slab								
	SINGAPUR LAYOUT								
	6th Main Road	Sqm	2	152.90	1.80		550.44		
	6th Main Road 4th Cross	Sqm	2	73.70	1.80		265.32		
	6th Main Road 3rd Cross	Sqm	2	50.60	1.80		182.16		
	6th Main Road 2nd Cross	Sqm	2	37.40	1.80		134.64		
	6th Main Road 1st Cross	Sqm	2	25.30	1.80		91.08		
	5th Main Road	Sqm	2	162.58	1.80		585.29		

	4th Main Road	Sqm	2	156.53	1.80		563.51		
	KUVEMPU NAGAR								
	4th Cross Road	Sqm	1	197.67	1.80		355.81		
	5th Cross Road	Sqm	2	77.44	1.80		278.78		
	Masthi venkatesha iyanger road 4th cross road upto end	Sqm	2	180.00	1.80		648.00		
	NAIDU LAYOUT								
	upto RMC Plant	Sqm	1	30.00	1.80		54.00		
	SINGAPURA GARDEN								
	2nd cross	Sqm	2	180.00	1.70		612.00		
	3rd cross (right side sri sai baba provision store)	Sqm	2	185.00	1.70		629.00		
	4th cross	Sqm	2	196.00	1.80		705.60		
	1st cross	Sqm	2	165.00	1.75		577.50		
	Sub Total						**6233.13**		
	Consider 5% Qnty for Removing						**311.66**		
	Basic rate							62.00	
	Area weightage 6%							3.72	
	Total						**311.66**	**65.72**	**20482.05**
3	Providing granite slabs of selected quality roughly dressed havinf a size of 10 cms thick and fixed in cement mortar (1:6) including fixing curing ete., complete.(P.No.25,I.No.5.31.2)								
	Open Drain (Sides & Bottom)								
	Drain slab								
	SINGAPUR LAYOUT								
	6th Main Road	Sqm	2	152.90	1.80		550.44		
	6th Main Road 4th Cross	Sqm	2	73.70	1.80		265.32		
	6th Main Road 3rd Cross	Sqm	2	50.60	1.80		182.16		
	6th Main Road 2nd Cross	Sqm	2	37.40	1.80		134.64		
	6th Main Road 1st Cross	Sqm	2	25.30	1.80		91.08		
	5th Main Road	Sqm	2	162.58	1.80		585.29		
	4th Main Road	Sqm	2	156.53	1.80		563.51		
	KUVEMPU NAGAR								
	4th Cross Road	Sqm	1	197.67	1.80		355.81		
	5th Cross Road	Sqm	2	77.44	1.80		278.78		
	Masthi venkatesha iyanger road 4th cross road upto end	Sqm	2	180.00	1.80		648.00		
	NAIDU LAYOUT								
	upto RMC Plant	Sqm	1	30.00	1.80		54.00		
	SINGAPURA GARDEN								
	2nd cross	Sqm	2	180.00	1.70		612.00		
	3rd cross (right side sri sai baba provision store)	Sqm	2	185.00	1.70		629.00		
	4th cross	Sqm	2	196.00	1.80		705.60		
	1st cross	Sqm	2	165.00	1.75		577.50		
	Sub Total						**6233.13**		
	Consider 5% Qnty for Refixing						**311.66**		
	Basic rate							779.00	

	Area weightage 6%							46.74	
	Total						311.66	825.74	257347.07
4	KSRB 300-1 : Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2meters and an average lift upto 1.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications.(P.No.142,I.No.19.1)								
	Road cutting portions								
	SINGAPUR LAYOUT								
	5th Main Road	Cum	1	4.62	0.50	0.23	0.53		
	KUVEMPU NAGAR								
	5th Cross Road	Cum	1	3.52	0.30	0.23	0.24		
	Basic rate							82.00	
	Area weightage 6%							4.92	
	Total						0.77	86.92	67.29
5	Excavation in Soil using Hydraulic Excavator CK 90 and Tippers with Disposal KSRRB M300-14. Excavation for roadwork in soil with hydraulic excavator of 0.9 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to the embankment location and complete as per specifications. MORTH Specification No.301 Page No. 143, Item No. 19.14								
	For New Road								
	NAIDU LAYOUT								
	upto sri ram sameksha apartment	Cum	1	110.00	8.50	0.15	140.25		
	upto RMC Plant	Cum	1	131.00	6.60	0.15	129.69		
	main road (left side of sri ram sameksha apartment)	Cum	1	83.00	4.50	0.15	56.03		
	Basic rate							46.00	
	Area weightage 6%							2.76	
	Total						325.97	48.76	15894.05
6	Lead for disposal of earth shall be payable at Carriage rates (Lead & Lift) by mechanical means including loading and unloading up to 15kms.(Refer Table. Page No.139)								
	Considered same Qty vide I.No.1+I.No.4+ I.No.5+ I.No.18	Cum					1279.36		
	Average Weight of Earth (1.28 Ton/cum, Basic rate Rs.2.00 Tonne/Km.) For 15 Kms = (2.00 x 1.28 x 15)/-		38.40						
	KSRRB M100-1 Add loading & unloading (P.No.130,I.No.17.1)		68.00						
	Total rate per Cum		106.40						
	Basic rate							106.40	
	Area weightage 6%							6.384	
	Total						1279.36	112.78	144290.78
7	KSRRB M300- Construction of Embankment with Material Gravel/ Murrum. KSRRB M300-53. Construction of embankment with approved material Gravel/Murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement Table 300- 2 complete as per specifications.(Including cost of gravel / murrum, watering charges & compaction by vibratory roller to 95% of proctors density) MORTH Specification No. 305								
	For New Road								
	NAIDU LAYOUT								
	upto sri ram sameksha apartment	Cum	1	110.00	8.50	0.25	233.75		
	upto RMC Plant	Cum	1	131.00	6.60	0.25	216.15		

	main road (left side of sri ram sameksha apartment)	Cum	1	83.00	4.50	0.25	93.38		
	Basic rate							302.00	
	Area weightage 6%							18.12	
	Total						**543.28**	**320.12**	**173913.19**
8	Pg. No. 149, Item No. 19.64,KSRRB 300-Compaction KSRRB 300-58. Compaction of original ground with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specifications. MORTH / Chapter 3								
	For New Road								
	NAIDU LAYOUT								
	upto sri ram sameksha apartment	Sqm	1	110.00	8.50		935.00		
	upto RMC Plant	Sqm	1	131.00	6.60		864.60		
	main road (left side of sri ram sameksha apartment)	Sqm	1	83.00	4.50		373.50		
	Basic rate							5.00	
	Area weightage 6%							0.30	
	Total						**2173.10**	**5.30**	**11517.43**
9	KSRRB M400-17.Providing,laying, spreading and compacting crushed stone aggregates of granite/trap/ basalt to wet mix macadam specification including pre mixing the Material with water at OMC in mechanical mix plant carriage of mixed material by tipper to site, laying in uniform layers with paver in sub-base/ base course on well prepared surface and compacting with vibratory roller to achieve the desired density. complete as per specifications.MORTH specification No.406(Page No.158,I.No.20.18)								
	Road cutting portions								
	SINGAPUR LAYOUT								
	5th Main Road	Cum	1	4.62	0.50	0.23	0.53		
	KUVEMPU NAGAR								
	5th Cross Road	Cum	1	3.52	0.30	0.23	0.24		
	NAIDU LAYOUT								
	upto sri ram sameksha apartment	Cum	1	110.00	8.50	0.25	233.75		
	upto RMC Plant	Cum	1	131.00	6.60	0.25	216.15		
	main road (left side of sri ram sameksha apartment)	Cum	1	83.00	4.50	0.25	93.38		
	Basic rate							1668.00	
	Area weightage 6%							100.08	
	Total						**544.05**	**1768.08**	**961922.47**
10	KSRRB 500-1.Cleaning the existing WBM Road surface including removing of binding materials and other foreign matter with wire brushes and small picks sweeping with brooms or soft brushes and finally dusting with old gunny bags and bar or compressed air to receive bituminous treatment including cost of all materials, labhour, HOM of machineries complet as per specifications.(P.No.161,I.No.21.1)								
	Road cutting portions								
	SINGAPUR LAYOUT								
	5th Main Road	Sqm	1	4.62	0.50		2.31		
	KUVEMPU NAGAR								
	5th Cross Road	Sqm	1	3.52	0.30		1.06		
	NAIDU LAYOUT								
	upto sri ram sameksha apartment	Sqm	1	110.00	8.50		935.00		
	upto RMC Plant	Sqm	1	131.00	6.60		864.60		
	main road (left side of sri ram sameksha apartment)	Sqm	1	83.00	4.50		373.50		

	Basic rate							13.00	
	Area weightage 6%							0.78	
	Total						2176.47	13.78	29991.70
11	KSRRB 500-9.Providing and applying tack coat using 80/100 grade bitumen (VG 10) on granular base such as WBM surface hot bitumen primed at 4kg per 10 sqm heating bitumen in boiler with spray set (Excluding cleaning of Road surface) inlcuding cost of all materials, labhour, HOM of machineries complete as per specifications.(P.No.161,I.No.21.9)								
	Considered same Above Qty	Sqm					2176.47		
	Basic rate							18.00	
	Area weightage 6%							1.08	
	Total						2176.47	19.08	41526.97
12	KSRRB 500-11. Providing and laying bituminous macadam on prepared surface with crushed coarse as per design mix formula for base / binding courseincluding loading of aggregates with F.E. loader, hot mixing of stone aggregates and bitumen in hot mix plant,transporting the mixed material in tipper to paver and laying mixed materials, with paver finisher to the required level and grade,rolling by power roller to achieve the desired density,but excluding cost of primer/tack coat including lead,lift and cost of all materials,labour,HOM of machineries complete as per specifications MORTH chapter 5 Using 100/120 TPH capacity H.M.P with sensor paver Gr-II (50 mm to 75mm) with 3.4% VG - 30 Bitumen(P.No.162-I.No.21.11.2)								
	SINGAPUR LAYOUT								
	5th Main Road	Cum	1	4.62	0.50	0.05	0.12		
	KUVEMPU NAGAR								
	5th Cross Road	Cum	1	3.52	0.30	0.05	0.05		
	NAIDU LAYOUT								
	upto sri ram sameksha apartment	Cum	1	110.00	8.50	0.05	46.75		
	upto RMC Plant	Cum	1	131.00	6.60	0.05	43.23		
	main road (left side of sri ram sameksha apartment)	Cum	1	83.00	4.50	0.05	18.68		
	Sub Total						**108.82**		
	Consider 5% qty for Profile correction and Dipression filling						**5.44**		
	Basic rate							5409.00	
	Area weightage 6%							324.54	
	Total						**114.26**	**5733.54**	**655139.88**
13	KSRRB 500-2.Cleaning the existing black topped surface with brooms,soft brushes and finally dusting with old gunny bags and/or compressed air to receive bituminous treatment including cost of all materials,labhour, HOM of machineries complete as per specifications.(P.No.161,I.No.21.2).								
	For Road surface								
	SINGAPUR LAYOUT								
	6th Main Road	Sqm	1	152.90	4.50		688.05		
	6th Main Road 4th Cross	Sqm	1	73.70	4.70		346.39		
	6th Main Road 3rd Cross	Sqm	1	50.60	4.60		232.76		
	6th Main Road 2nd Cross	Sqm	1	37.40	4.00		149.60		
	6th Main Road 1st Cross	Sqm	1	25.30	4.00		101.20		
	5th Main Road	Sqm	1	162.58	4.25		690.97		
	4th Main Road	Sqm	1	156.53	4.70		735.69		
	KUVEMPU NAGAR								
	5th Cross Road	Sqm	1	77.44	4.85		375.58		
	Masthi venkatesha iyanger road 4th cross road upto end	Sqm	1	180.00	5.20		936.00		

	NAIDU LAYOUT								
	upto sri ram sameksha apartment	Sqm	1	110.00	8.50		935.00		
	upto RMC Plant	Sqm	1	131.00	6.60		864.60		
	main road (left side of sri ram sameksha apartment)	Sqm	1	83.00	4.50		373.50		
	SINGAPURA GARDEN								
	1st cross (left side manish enterprise)	Sqm	1	141.00	6.40		902.40		
	2nd cross	Sqm	1	180.00	6.35		1143.00		
	3rd cross (right side sri sai baba provision store)	Sqm	1	185.00	6.50		1202.50		
	4th cross	Sqm	1	196.00	5.60		1097.60		
	1st cross	Sqm	1	165.00	5.10		841.50		
	Basic rate							3.00	
	Area weightage 6%							0.18	
	Total						**11616.34**	**3.18**	**36939.96**
14	KSRRB M500-10.Providing and applying tack coat using 80/100 grade bitumen(VG10) in boiler fitted with spray set distributor at the rate of 0.20kg per sqm on the existing prepared bituminous surface cleaned with mechanical broom. complete as per specification. MORTH Specifiacation clause No. 503.using Bitumen 80/100 (VG-10) on Primed surface.(P.No.162,I.No. 21.10.2) .								
	For Road surface								
	SINGAPUR LAYOUT								
	6th Main Road	Sqm	1	152.90	4.50		688.05		
	6th Main Road 4th Cross	Sqm	1	73.70	4.70		346.39		
	6th Main Road 3rd Cross	Sqm	1	50.60	4.60		232.76		
	6th Main Road 2nd Cross	Sqm	1	37.40	4.00		149.60		
	6th Main Road 1st Cross	Sqm	1	25.30	4.00		101.20		
	5th Main Road	Sqm	1	162.58	4.25		690.97		
	4th Main Road	Sqm	1	156.53	4.70		735.69		
	KUVEMPU NAGAR								
	5th Cross Road	Sqm	1	77.44	4.85		375.58		
	Masthi venkatesha iyanger road 4th cross road upto end	Sqm	1	180.00	5.20		936.00		
	NAIDU LAYOUT								
	upto sri ram sameksha apartment	Sqm	1	110.00	8.50		935.00		
	upto RMC Plant	Sqm	1	131.00	6.60		864.60		
	main road (left side of sri ram sameksha apartment)	Sqm	1	83.00	4.50		373.50		
	SINGAPURA GARDEN								
	1st cross (left side manish enterprise)	Sqm	1	141.00	6.40		902.40		
	2nd cross	Sqm	1	180.00	6.35		1143.00		
	3rd cross (right side sri sai baba provision store)	Sqm	1	185.00	6.50		1202.50		
	4th cross	Sqm	1	196.00	5.60		1097.60		
	1st cross	Sqm	1	165.00	5.10		841.50		
	Basic rate							9.00	
	Area weightage 6%							0.54	

	Total						11616.34	9.54	110819.88
15	KSRRB M500-19. Providing and laying bituminous concrete using crushed aggregates of specified grading,premixed with bituminous binder and filler,transporting the hot mix to work site,laying with a paver finisher to the required grade, level and alignment,rolling with smooth wheeled,vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No.500.9 complete in all respects complete as per specifications. using 40/60 TPH capacity H.M.P with mechanical Paver Gr-II(30mm to 45mm) with 5.4% CRMB 55 (P.No.165- I.No.21.23.6)								
	SINGAPUR LAYOUT								
	6th Main Road	Cum	1	152.90	4.50	0.04	27.52		
	6th Main Road 4th Cross	Cum	1	73.70	4.70	0.04	13.86		
	6th Main Road 3rd Cross	Cum	1	50.60	4.60	0.04	9.31		
	6th Main Road 2nd Cross	Cum	1	37.40	4.00	0.04	5.98		
	6th Main Road 1st Cross	Cum	1	25.30	4.00	0.04	4.05		
	5th Main Road	Cum	1	162.58	4.25	0.04	27.64		
	4th Main Road	Cum	1	156.53	4.70	0.04	29.43		
	KUVEMPU NAGAR								
	5th Cross Road	Cum	1	77.44	4.85	0.04	15.02		
	Masthi venkatesha iyanger road 4th cross road upto end	Cum	1	180.00	5.20	0.04	37.44		
	NAIDU LAYOUT								
	upto sri ram sameksha apartment	Cum	1	110.00	8.50	0.04	37.40		
	upto RMC Plant	Cum	1	131.00	6.60	0.04	34.58		
	main road (left side of sri ram sameksha apartment)	Cum	1	83.00	4.50	0.04	14.94		
	SINGAPURA GARDEN								
	1st cross (left side manish enterprise)	Cum	1	141.00	6.40	0.04	36.10		
	2nd cross	Cum	1	180.00	6.35	0.04	45.72		
	3rd cross (right side sri sai baba provision store)	Cum	1	185.00	6.50	0.04	48.10		
	4th cross	Cum	1	196.00	5.60	0.04	43.90		
	1st cross	Cum	1	165.00	5.10	0.04	33.66		
	Profile correction & Pot Hole Filling	**No.*(1/2)*Length*(20%*Width)*Depth**							
	SINGAPUR LAYOUT								
	6th Main Road	Cum	1	152.90	4.50	0.04	2.75		
	6th Main Road 4th Cross	Cum	1	73.70	4.70	0.04	1.39		
	6th Main Road 3rd Cross	Cum	1	50.60	4.60	0.04	0.93		
	6th Main Road 2nd Cross	Cum	1	37.40	4.00	0.04	0.60		
	6th Main Road 1st Cross	Cum	1	25.30	4.00	0.04	0.40		
	5th Main Road	Cum	1	162.58	4.25	0.04	2.76		
	4th Main Road	Cum	1	156.53	4.70	0.04	2.94		
	KUVEMPU NAGAR								
	5th Cross Road	Cum	1	77.44	4.85	0.04	1.50		
	Masthi venkatesha iyanger road 4th cross road upto end	Cum	1	180.00	5.20	0.04	3.74		

	NAIDU LAYOUT								
	upto sri ram sameksha apartment	Cum	1	110.00	8.50	0.04	3.74		
	upto RMC Plant	Cum	1	131.00	6.60	0.04	3.46		
	main road (left side of sri ram sameksha apartment)	Cum	1	83.00	4.50	0.04	1.49		
	SINGAPURA GARDEN								
	1st cross (left side manish enterprise)	Cum	1	141.00	6.40	0.04	3.61		
	2nd cross	Cum	1	180.00	6.35	0.04	4.57		
	3rd cross (right side sri sai baba provision store)	Cum	1	185.00	6.50	0.04	4.81		
	4th cross	Cum	1	196.00	5.60	0.04	4.39		
	1st cross	Cum	1	165.00	5.10	0.04	3.37		
	Basic rate							8502.00	
	Area weightage 6%							510.12	
	Total						**511.12**	**9012.12**	**4606265.40**
16	Providing Plastic to Bituminous concrete @ 8%								
	8% OF BC	Kg		8%	511.12	117.00	**4784.07**		
	Basic rate							27.00	
	Area weightage 6%							1.62	
	Total						**4784.07**	**28.62**	**136920.18**
17	KSRRB M800-13.Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface:- Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. (P.No.185-I.No.24.15)								
	SINGAPUR LAYOUT								
	6th Main Road	Sqm	1	152.90	0.10		15.29		
	6th Main Road 4th Cross	Sqm	1	73.70	0.10		7.37		
	6th Main Road 3rd Cross	Sqm	1	50.60	0.10		5.06		
	6th Main Road 2nd	Sqm	1	37.40	0.10		3.74		
	6th Main Road 1st Cross	Sqm	1	25.30	0.10		2.53		
	5th Main Road	Sqm	1	162.58	0.10		16.26		
	4th Main Road	Sqm	1	156.53	0.10		15.65		
	KUVEMPU NAGAR								
	5th Cross Road	Sqm	1	77.44	0.10		7.74		
	Masthi venkatesha iyanger road 4th cross road upto end	Sqm	1	180.00	0.10		18.00		
	NAIDU LAYOUT				0.10				
	upto sri ram sameksha apartment	Sqm	1	110.00	0.10		11.00		
	upto RMC Plant	Sqm	1	131.00	0.10		13.10		
	main road (left side of sri ram sameksha apartment)	Sqm	1	83.00	0.10		8.30		
	SINGAPURA GARDEN								
	1st cross (left side manish enterprise)	Sqm	1	141.00	0.10		14.10		
	2nd cross	Sqm	1	180.00	0.10		18.00		
	3rd cross (right side sri sai baba provision	Sqm	1	185.00	0.10		18.50		

	4th cross	Sqm	1	196.00	0.10		19.60		
	1st cross	Sqm	1	165.00	0.10		16.50		
	Basic rate							512.00	
	Area weightage 6%							30.72	
	Total						210.75	542.72	114375.53
18	KSRRB M200-24. Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials stacking serviceable and unserviceable materials seperately complete as per specifications. MORTH Specification No. 202(P.No.138- I.No.18.47)								
	KUVEMPU NAGAR								
	4th Cross Road	Cum	1	148.50	4.00	0.15	89.10		
		Cum	1	8.69	6.80	0.15	8.86		
		Cum	1	34.43	3.40	0.15	17.56		
	Basic rate							781.00	
	Area weightage 6%							46.86	
	Total						115.52	827.86	95636.95
19	KSRRB M600-1. Construction of dry lean cement concrete mix CC1:5:10 with OPC cement @160Kgs, with 25mm and down size graded granite metal coarse aggregate at 0.86cum and fine aggregates @ 0.58cum Sub- base over a prepared sub-grade with (coarse and fine aggregate conforming to IS: 383) aggregate cement ratio not to exceed 15:1. Aggregate gradation after blending to be as per Table 600-1, cement content not to be less than 160 kg/ cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver with electronic sensor, compacting with 8-10 tonnes vibratory roller, finishing and curing complete as per specifications.MORTH Specification No. 601, Item No. 22.1, Pg No. 176								
	KUVEMPU NAGAR								
	4th Cross Road	Cum	1	148.50	4.00	0.15	89.10		
		Cum	1	8.69	6.80	0.15	8.86		
		Cum	1	34.43	3.40	0.15	17.56		
	Basic rate							3761.00	
	Area weightage 6%							225.66	
	Total						115.52	3986.66	460551.32
20	Cement concrete pavement.Construction of un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 design mix M20/M30 , with 25mm and down size graded granite metal coarse aggregates and fine aggregtes , with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008 , mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints including groove cutting charges, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specifications. - M30 (at 360Kg per cum coarse aggregate @ 0.69cum and fine aggregate @ 0.46cum) Pg No.177 Item No.22.6.1								
	KUVEMPU NAGAR								
	4th Cross Road	Cum	1	148.50	4.00	0.15	89.10		
		Cum	1	8.69	6.80	0.15	8.86		
		Cum	1	36.00	3.40	0.15	18.36		
	Sub Total						**116.32**		
	Consider 5% qty for camber correction						**5.82**		
	Basic rate							5866.00	
	Area weightage 6%							351.96	
	Total						122.14	6217.96	759461.57
21	KSRRB M800-13.Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Conrete Surface:- Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms and 2Ltr of Primer per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. (P.No.192-I.No.24.57)								

	KUVEMPU NAGAR								
	4th Cross Road	Sqm	1	148.50	0.10		14.85		
		Sqm	1	8.69	0.10		0.87		
		Sqm	1	36.00	0.10		3.60		
	Basic rate							647.00	
	Area weightage 6%							38.82	
	Total						19.32	685.82	13249.36
								Sub Total	**8785622.05**
								Preparation of DPR And Project management Consultancy Charges(2% of estimated cost)	200000
								Tender Premium 10% of estimated Cost	1000000
								Miscellenious and rounding	14378
								TOTAL AMOUNT	**10000000**
									RUPEES ONE CRORE ONLY

CERTIFICATE:

1) The work spot has been inspected and found to be necessary
2) The work spot comes under B.B.M.P
3) The provisions made in the estimate are necessary and minimum
4) The estimate is based on C.S.R of 2016-2017

ADMINISTRATIVE APPROVAL

Accorded For Rs. One Crore only

Head of A/c. P-3111

Div. Ref. No. 127/17-18 Date. 19/12/17

AE EE(BTP) 19/12

Technical Sanction

Accorded For Rs one crore only

Head of A/C. P-3111

CER NO : TS 495/17-18 Dt. 27.12.2017

TA CE (YNK)

BRUHAT BANGALORE MAHANAGARA PALIKE

PACKAGE-9

NAME OF WORK : IMPROVEMENTS TO ROADS AND DRAINS AT TEACHERS LAYOUT, RAGHAVENDRA COLONY, BALAJI LAYOUT, SHRINIDHI LAYOUT, VAISNAVI LAYOUT, SAI GARDEN, M S PALYA, BHARATH NAGARA, CHINNASWAMY LAYOUT, MARUTHI LAYOUT, VINAYAKA NAGAR, SINGAPURA PARADISE, IN WARD NO. 11 KUVEMPUNAGARA.

Sl.No.	Description of work	Mesurement					Qty	Rate	Amount
		Unit	No	L	B	D			
1	KSRB 2-1.1: Earthwork in surface excavation in ordinary soil for leveling and lowering the ground manually (other than foundation of buildings, culverts, roads drains and trenches of pipe line and cables) and removing the excavated stuff to a distance not exceeding 50m and lift up lift 1.5, excavated surface leveled and neatly dressed disposed earth to be leveled after breaking of clods and neatly dressed as per Specification. No. KBS 2.1(a)/2.3.1(P.No.5-I.No.2.1)								
	Desilting drain								
	SRINIDHI LAYOUT								
	8th 'A Main Road	Cum	2	112.20	0.60	0.40	53.86		
		Cum	2	90.20	0.60	0.40	43.30		
	8th 'B Main Road	Cum	2	103.40	0.65	0.40	53.77		
		Cum	2	112.20	0.65	0.40	58.34		
		Cum	2	82.94	0.65	0.40	43.13		
		Cum	2	86.90	0.65	0.40	45.19		
	1st cross (from MS palya main road to dead end) in front of green valley	Cum	2	140.80	0.60	0.40	67.58		
		Cum	2	170.50	0.60	0.40	81.84		
	Infront of dhanlakshmi store (right side of shimadri house)	Cum	2	27.50	0.60	0.40	13.20		
	Green valley appartment to dhanlakshmi store (main road, opposite to 1st cross) 8TH MAIN ROAD	Cum	2	155.10	0.60	0.40	74.45		
	VISHNAVI LAYOUT								
	2nd Cross Road	Cum	2	60.50	0.70	0.40	33.88		
	1st Cross Road	Cum	2	115.17	0.65	0.40	59.89		
	4th Cross Road	Cum	2	69.50	0.70	0.40	38.92		
	MARUTHI LAYOUT								
	Rajanna garden 6'A cross to prestige school road (all cross roads)	Cum	2	132.00	0.70	0.40	73.92		
	Cross road	Cum	1	38.50	0.70	0.40	10.78		
	5'A cross	Cum	1	64.90	0.70	0.40	18.17		
	3'A cross (RHS only)	Cum	2	118.80	0.60	0.40	57.02		
	3'A cross (LHS)	Cum	1	142.45	0.60	0.40	34.19		
	2'A cross (RHS only)	Cum	2	124.30	0.65	0.40	64.64		
	2'A cross (LHS)	Cum	2	129.80	0.60	0.40	62.30		
	SINGAPURA PARADISE								
	Infront of navodaya kishore Kendra vidyalaya to dead end (2nd main road varadaraja swamy badavane)	Cum	2	456.50	0.60	0.40	219.12		

	2nd cross (right side shiva sidhi house)	Cum	2	264.50	0.55	0.40	116.38		
		Cum	1	35.20	0.60	0.40	8.45		
		Cum	2	39.60	0.60	0.40	19.01		
		Cum	2	46.20	0.60	0.40	22.18		
	Basic rate							157.00	
	Area weightage 6%							9.42	
	Total						**1373.50**	**166.42**	**228577.40**
2	Removing B.S.slab of Drain and stacking.(P.No.25-I.No.5.32)								
	Closed Drain								
	Cover Slab								
	SRINIDHI LAYOUT								
	8th 'A Main Road	Sqm	1	112.20	0.60		67.32		
		Sqm	1	90.20	0.60		54.12		
	Infront of dhanlakshmi store (right side of shimadri house)	Sqm	1	27.50	0.60		16.50		
	Green valley appartment to dhanlakshmi store (main road, opposite to 1st cross) 8TH MAIN ROAD	Sqm	1	155.10	0.60		93.06		
	VISHNAVI LAYOUT								
	2nd Cross Road	Sqm	1	60.50	0.70		42.35		
	MARUTHI LAYOUT								
	2'A cross (RHS only)	Sqm	2	124.30	0.65		161.59		
	Open Drain (Sides & Bottom)								
	Drain slab								
	SRINIDHI LAYOUT								
	8th 'A Main Road	Sqm	1	112.20	1.80		201.96		
		Sqm	1	90.20	1.80		162.36		
	8th 'B Main Road	Sqm	2	103.40	1.80		372.24		
		Sqm	2	112.20	1.80		403.92		
		Sqm	2	82.94	1.80		298.58		
		Sqm	2	86.90	1.80		312.84		
	1st cross (from MS palya main road to dead end) in front of green valley	Sqm	2	140.80	1.80		506.88		
		Sqm	2	170.50	1.80		613.80		
	Infront of dhanlakshmi store (right side of shimadri house)	Sqm	1	27.50	1.80		49.50		
	Green valley appartment to dhanlakshmi store (main road, opposite to 1st cross) 8TH MAIN ROAD	Sqm	1	155.10	1.80		279.18		
	VISHNAVI LAYOUT								
	2nd Cross Road	Sqm	1	60.50	1.80		108.90		
	1st Cross Road	Sqm	2	115.17	1.80		414.61		
	4th Cross Road	Sqm	2	69.50	1.80		250.20		
	MARUTHI LAYOUT								

	Rajanna garden 6'A cross to prestige school road (all cross roads)	Sqm	2	132.00	1.80		475.20		
	Cross road	Sqm	1	38.50	1.80		69.30		
	5'A cross	Sqm	1	64.90	1.80		116.82		
	3'A cross (RHS only)	Sqm	2	118.80	1.80		427.68		
	3'A cross (LHS)	Sqm	1	142.45	1.80		256.41		
	2'A cross (LHS)	Sqm	2	129.80	1.80		467.28		
	Infront of navodaya kishore Kendra vidyalaya to dead end (2nd main road varadaraja swamy badavane)	Sqm	2	456.50	1.80		1643.40		
	2nd cross (right side shiva sidhi house)	Sqm	2	264.50	1.75		925.75		
		Sqm	1	35.20	1.80		63.36		
		Sqm	2	39.60	1.80		142.56		
		Sqm	2	46.20	1.80		166.32		
	Sub Total						**9164.00**		
	Consider 5% Qnty for Removing						**458.20**		
	Basic rate							62.00	
	Area weightage 6%							3.72	
	Total						**458.20**	**65.72**	**30112.89**
3	Removing and refixing stone slabs of drains and pointing in CM (1:3) (P.No.25-I.No.5.33)								
	Closed Drain								
	Cover Slab								
	SRINIDHI LAYOUT								
	8th 'A Main Road	Sqm	1	112.20	0.60		67.32		
		Sqm	1	90.20	0.60		54.12		
	Infront of dhanlakshmi store (right side of shimadri house)	Sqm	1	27.50	0.60		16.50		
	Green valley appartment to dhanlakshmi store (main road, opposite to 1st cross) 8TH MAIN ROAD	Sqm	1	155.10	0.60		93.06		
	VISHNAVI LAYOUT								
	2nd Cross Road	Sqm	1	60.50	0.70		42.35		
	MARUTHI LAYOUT								
	2'A cross (RHS only)	Sqm	2	124.30	0.65		161.59		
	Sub Total						**434.94**		
	Consider 30% Qnty for Removing & Refixing						**130.48**		
	Basic rate							76.00	
	Area weightage 6%							4.56	
	Total						**130.48**	**80.56**	**10511.63**
4	Providing granite slabs of selected quality roughly dressed havinf a size of 7.5 cms thick and fixed in cement mortar (1:6) including fixing curing ete., complete.(P.No.25,I.No.5.31.1)								
	Closed Drain								
	Cover Slab								
	SRINIDHI LAYOUT								
	8th 'A Main Road	Sqm	1	112.20	0.60		67.32		
		Sqm	1	90.20	0.60		54.12		

	Infront of dhanlakshmi store (right side of shimadri house)	Sqm	1	27.50	0.60		16.50		
	Green valley appartment to dhanlakshmi store (main road, opposite to 1st cross) 8TH MAIN ROAD	Sqm	1	155.10	0.60		93.06		
	VISHNAVI LAYOUT								
	2nd Cross Road	Sqm	1	60.50	0.70		42.35		
	MARUTHI LAYOUT								
	2'A cross (RHS only)	Sqm	2	124.30	0.65		161.59		
	Sub Total						**434.94**		
	Consider 5% Qnty for Refixing						**21.75**		
	Basic rate							628.00	
	Area weightage 6%							37.68	
	Total						**21.75**	**665.68**	**14476.54**
5	Providing granite slabs of selected quality roughly dressed havinf a size of 10 cms thick and fixed in cement mortar (1:6) including fixing curing ete., complete.(P.No.25,I.No.5.31.2)								
	Open Drain (Sides & Bottom)								
	Drain slab								
	SRINIDHI LAYOUT								
	8th 'A Main Road	Sqm	1	112.20	1.80		201.96		
		Sqm	1	90.20	1.80		162.36		
	8th 'B Main Road	Sqm	2	103.40	1.80		372.24		
		Sqm	2	112.20	1.80		403.92		
		Sqm	2	82.94	1.80		298.58		
		Sqm	2	86.90	1.80		312.84		
	1st cross (from MS palya main road to dead end) in front of green valley	Sqm	2	140.80	1.80		506.88		
		Sqm	2	170.50	1.80		613.80		
	Infront of dhanlakshmi store (right side of shimadri house)	Sqm	1	27.50	1.80		49.50		
	Green valley appartment to dhanlakshmi store (main road, opposite to 1st cross) 8TH MAIN ROAD	Sqm	1	155.10	1.80		279.18		
	VISHNAVI LAYOUT								
	2nd Cross Road	Sqm	1	60.50	1.80		108.90		
	1st Cross Road	Sqm	2	115.17	1.80		414.61		
	4th Cross Road	Sqm	2	63.00	1.80		226.80		
	MARUTHI LAYOUT								
	Rajanna garden 6'A cross to prestige school road (all cross roads)	Sqm	2	132.00	1.80		475.20		
	Cross road	Sqm	1	38.50	1.80		69.30		
	5'A cross	Sqm	1	64.90	1.80		116.82		
	3'A cross (RHS only)	Sqm	2	118.80	1.80		427.68		

	3'A cross (LHS)	Sqm	1	142.45	1.80		256.41		
	2'A cross (LHS)	Sqm	2	129.80	1.80		467.28		
	SINGAPURA PARADISE								
	Infront of navodaya kishore Kendra vidyalaya to dead end (2nd main road varadaraja swamy badavane)	Sqm	2	456.50	1.80		1643.40		
	2nd cross (right side shiva sidhi house)	Sqm	2	264.50	1.75		925.75		
		Sqm	1	35.20	1.80		63.36		
		Sqm	2	39.60	1.80		142.56		
		Sqm	2	46.20	1.80		166.32		
	Sub Total						**8705.66**		
	Consider 5% Qnty for Refixing						**435.28**		
	Basic rate							779.00	
	Area weightage 6%							46.74	
	Total						**435.28**	**825.74**	**359430.42**
6	KSRB 300-1 : Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2meters and an average lift upto 1.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications.(P.No.142,I.No.19.1)								
	Road cutting portions								
	SRINIDHI LAYOUT								
	8th A main Road	Cum	5	5.61	0.50	0.23	3.23		
	VISHNAVI LAYOUT								
	2nd Cross Road	Cum	3	5.61	0.50	0.23	1.94		
	MARUTHI LAYOUT								
	12th cross	Cum	1	5.50	0.70	0.23	0.89		
		Cum	1	5.17	0.80	0.23	0.95		
	3'A cross (LHS)	Cum	1	5.17	0.60	0.23	0.71		
	Basic rate							82.00	
	Area weightage 6%							4.92	
	Total						**7.71**	**86.92**	**670.28**
7	Excavation in Soil using Hydraulic Excavator CK 90 and Tippers with Disposal KSRRB M300-14. Excavation for roadwork in soil with hydraulic excavator of 0.9 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to the embankment location and complete as per specifications. MORTH Specification No.301 Page No. 143, Item No. 19.14								
	For New Road								
	MARUTHI LAYOUT								
	2'A cross (LHS)	Cum	1	41.80	4.60	0.15	28.84		
	Basic rate							46.00	
	Area weightage 6%							2.76	
	Total						**28.84**	**48.76**	**1406.34**
8	Lead for disposal of earth shall be payable at Carriage rates (Lead & Lift) by mechanical means including loading and unloading up to 15kms.(Refer Table. Page No.139)								
	Considered same Qty vide I.No.1+I.No.6+ I.No.7+I.No.21	Cum					1511.93		

	Average Weight of Earth (1.28 Ton/cum, Basic rate Rs.2.00 Tonne/Km.) For 15 Kms = (2.00 x 1.28 x 15)/-		38.40						
	KSRRB M100-1 Add loading & unloading (P.No.130,I.No.17.1)		68.00						
	Total rate per Cum		106.40						
	Basic rate							106.40	
	Area weightage 6%							6.384	
	Total						1511.93	112.78	170521.59
9	KSRRB M300- Construction of Embankment with Material Gravel/ Murrum. KSRRB M300-53. Construction of embankment with approved material Gravel/Murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement Table 300- 2 complete as per specifications.(Including cost of gravel / murrum, watering charges & compaction by vibratory roller to 95% of proctors density) MORTH Specification No. 305								
	For New Road								
	MARUTHI LAYOUT								
	2'A cross (LHS)	Cum	1	41.80	4.60	0.25	48.07		
	Basic rate							302.00	
	Area weightage 6%							18.12	
	Total						48.07	320.12	15388.17
10	Pg. No. 149, Item No. 19.64,KSRRB 300-Compaction KSRRB 300-58. Compaction of original ground with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specifications. MORTH / Chapter 3								
	For New Road								
	MARUTHI LAYOUT								
	2'A cross (LHS)	Sqm	1	41.80	4.60		192.28		
	Basic rate							5.00	
	Area weightage 6%							0.30	
	Total						192.28	5.30	1019.08
11	KSRRB M400-17.Providing,laying, spreading and compacting crushed stone aggregates of granite/trap/ basalt to wet mix macadam specification including pre mixing the Material with water at OMC in mechanical mix plant carriage of mixed material by tipper to site, laying in uniform layers with paver in sub-base/ base course on well prepared surface and compacting with vibratory roller to achieve the desired density. complete as per specifications.MORTH specification No.406(Page No.158,I.No.20.18)								
	Road cutting portions								
	SRINIDHI LAYOUT								
	8th A main Road	Cum	5	5.61	0.50	0.23	3.23		
	VISHNAVI LAYOUT								
	2nd Cross Road	Cum	3	5.61	0.50	0.23	1.94		
	MARUTHI LAYOUT								
	12th cross	Cum	1	5.50	0.70	0.23	0.89		
		Cum	1	5.17	0.80	0.23	0.95		
	3'A cross (LHS)	Cum	1	5.17	0.60	0.23	0.71		
	2'A cross (LHS)	Cum	1	41.80	4.60	0.25	48.07		
	Basic rate							1668.00	
	Area weightage 6%							100.08	
	Total						55.78	1768.08	98626.05
12	KSRRB 300-49. Scarifying bituminous course 50mm to 75mm thick along with premix carpet / surface dressing by manual means without disturbing the base and stacking of the debris materials including cost of all labour charges complete as per specifications (P.No.147,I.No.19.55)								

	SINGAPURA PARADISE								
	2nd cross (right side shiva sidhi house)	Sqm	1	39.60	3.90		154.44		
	Basic rate							57.00	
	Area weightage 6%							3.42	
	Total						**154.44**	**60.42**	**9331.26**
13	KSRRB 500-1.Cleaning the existing WBM Road surface including removing of binding materials and other foreign matter with wire brushes and small picks sweeping with brooms or soft brushes and finally dusting with old gunny bags and bar or compressed air to receive bituminous treatment including cost of all materials, labhour, HOM of machineries complet as per specifications.(P.No.161,I.No.21.1)								
	Road cutting portions								
	SRINIDHI LAYOUT								
	8th A main Road	Sqm	5	5.61	0.50		14.03		
	VISHNAVI LAYOUT								
	2nd Cross Road	Sqm	3	5.61	0.50		8.42		
	MARUTHI LAYOUT								
	12th cross	Sqm	1	5.50	0.70		3.85		
		Sqm	1	5.17	0.80		4.14		
	3'A cross (LHS)	Sqm	1	5.17	0.60		3.10		
	2'A cross (LHS)	Sqm	1	41.80	4.60		192.28		
	SINGAPURA PARADISE								
	2nd cross (right side shiva sidhi house)	Sqm	1	39.60	3.90		154.44		
	Basic rate							13.00	
	Area weightage 6%							0.78	
	Total						**380.25**	**13.78**	**5239.82**
14	KSRRB 500-9.Providing and applying tack coat using 80/100 grade bitumen (VG 10) on granular base such as WBM surface hot bitumen primed at 4kg per 10 sqm heating bitumen in boiler with spray set (Excluding cleaning of Road surface) inlcuding cost of all materials, labhour, HOM of machineries complete as per specifications.(P.No.161,I.No.21.9)								
	Considered same Above Qty	Sqm					380.25		
	Basic rate							18.00	
	Area weightage 6%							1.08	
	Total						**380.25**	**19.08**	**7255.13**
15	KSRRB 500-11. Providing and laying bituminous macadam on prepared surface with crushed coarse as per design mix formula for base / binding courseincluding loading of aggregates with F.E. loader, hot mixing of stone aggregates and bitumen in hot mix plant,transporting the mixed material in tipper to paver and laying mixed materials, with paver finisher to the required level and grade,rolling by power roller to achieve the desired density,but excluding cost of primer/tack coat including lead,lift and cost of all materials,labour,HOM of machineries complete as per specifications MORTH chapter 5 Using 100/120 TPH capacity H.M.P with sensor paver Gr-II (50 mm to 75mm) with 3.4% VG - 30 Bitumen(P.No.162-I.No.21.11.2)								
	SRINIDHI LAYOUT								
	8th A main Road	Cum	5	5.61	0.50	0.05	0.70		
	VISHNAVI LAYOUT								
	2nd Cross Road	Cum	3	5.61	0.50	0.05	0.42		
	MARUTHI LAYOUT								
	12th cross	Cum	1	5.50	0.70	0.05	0.19		
		Cum	1	5.17	0.80	0.05	0.21		
	3'A cross (LHS)	Cum	1	5.17	0.60	0.05	0.16		
	2'A cross (LHS)	Cum	1	41.80	4.60	0.05	9.61		

	SINGAPURA PARADISE								
	2nd cross (right side shiva sidhi house)	Cum	1	39.60	3.90	0.05	7.72		
	Sub Total						**19.01**		
	Consider 5% qty for Profile correction and Dipression filling						**0.95**		
	Basic rate							5409.00	
	Area weightage 6%							324.54	
	Total						**19.96**	**5733.54**	**114458.77**
16	KSRRB 500-2.Cleaning the existing black topped surface with brooms,soft brushes and finally dusting with old gunny bags and/or compressed air to receive bituminous treatment including cost of all materials,labhour, HOM of machineries complete as per specifications.(P.No.161,I.No.21.2).								
	For Road surface								
	SRINIDHI LAYOUT								
	8th 'A Main Road	Sqm	1	112.20	5.50		617.10		
		Sqm	1	90.20	4.70		423.94		
	8th 'B Main Road	Sqm	1	103.40	4.60		475.64		
		Sqm	1	112.20	5.30		594.66		
		Sqm	1	82.94	5.10		422.99		
		Sqm	1	86.90	5.30		460.57		
	1st cross (from MS palya main road to dead end) in front of green valley	Sqm	1	140.80	5.00		704.00		
		Sqm	1	170.50	4.80		818.40		
	Infront of dhanlakshmi store (right side of shimadri house)	Sqm	1	27.50	5.60		154.00		
	Green valley appartment to dhanlakshmi store (main road, opposite to 1st cross) 8TH MAIN ROAD	Sqm	1	155.10	5.20		806.52		
	VISHNAVI LAYOUT								
	2nd Cross Road	Sqm	1	60.50	5.70		344.85		
	1st Cross Road	Sqm	1	115.17	5.00		575.85		
	Main Road (from 1st Cross to dead end)	Sqm	1	38.06	5.80		220.75		
	MARUTHI LAYOUT								
	Rajanna garden 6'A cross to prestige school road (all cross roads)	Sqm	1	132.00	4.95		653.40		
	Cross road	Sqm	1	38.50	4.30		165.55		
	5'A cross	Sqm	1	64.90	4.70		305.03		
	12th cross	Sqm	1	127.82	4.95		632.71		
	3'A cross (RHS only)	Sqm	1	118.80	4.50		534.60		
	3'A cross (LHS)	Sqm	1	142.45	4.60		655.27		
	2'A cross (RHS only)	Sqm	1	124.30	4.50		559.35		
	2'A cross (LHS)	Sqm	1	129.80	4.60		597.08		
		Sqm	1	41.80	4.60		192.28		
	SINGAPURA PARADISE								
	For Road surface								

	Infront of navodaya kishore Kendra vidyalaya to dead end (2nd main road varadaraja swamy badavane)	Sqm	1	456.50	5.55		2533.58		
	2nd cross (right side shiva sidhi house)	Sqm	1	264.50	4.80		1269.60		
		Sqm	1	35.20	4.00		140.80		
		Sqm	1	39.60	3.90		154.44		
		Sqm	1	46.20	3.90		180.18		
	Basic rate							3.00	
	Area weightage 6%							0.18	
	Total						**15193.14**	**3.18**	**48314.17**
17	KSRRB M500-10.Providing and applying tack coat using 80/100 grade bitumen(VG10) in boiler fitted with spray set distributor at the rate of 0.20kg per sqm on the existing prepared bituminous surface cleaned with mechanical broom. complete as per specification. MORTH Specifiacation clause No. 503.using Bitumen 80/100 (VG-10) on Primed surface.(P.No.162,I.No. 21.10.2) .								
	For Road surface								
	SRINIDHI LAYOUT								
	8th 'A Main Road	Sqm	1	112.20	5.50		617.10		
		Sqm	1	90.20	4.70		423.94		
	8th 'B Main Road	Sqm	1	103.40	4.60		475.64		
		Sqm	1	112.20	5.30		594.66		
		Sqm	1	82.94	5.10		422.99		
		Sqm	1	86.90	5.30		460.57		
	1st cross (from MS palya main road to dead end) in front of green valley	Sqm	1	140.80	5.00		704.00		
		Sqm	1	170.50	4.80		818.40		
	Infront of dhanlakshmi store (right side of shimadri house)	Sqm	1	27.50	5.60		154.00		
	Green valley appartment to dhanlakshmi store (main road, opposite to 1st cross) 8TH MAIN ROAD	Sqm	1	155.10	5.20		806.52		
	VISHNAVI LAYOUT								
	2nd Cross Road	Sqm	1	60.50	5.70		344.85		
	1st Cross Road	Sqm	1	115.17	5.00		575.85		
	Main Road (from 1st Cross to dead end)	Sqm	1	38.06	5.80		220.75		
	MARUTHI LAYOUT								
	Rajanna garden 6'A cross to prestige school road (all cross roads)	Sqm	1	132.00	4.95		653.40		
	Cross road	Sqm	1	38.50	4.30		165.55		
	5'A cross	Sqm	1	64.90	4.70		305.03		
	12th cross	Sqm	1	127.82	4.95		632.71		
	3'A cross (RHS only)	Sqm	1	118.80	4.50		534.60		
	3'A cross (LHS)	Sqm	1	142.45	4.60		655.27		
	2'A cross (RHS only)	Sqm	1	124.30	4.50		559.35		
	2'A cross (LHS)	Sqm	1	129.80	4.60		597.08		
		Sqm	1	41.80	4.60		192.28		
	SINGAPURA PARADISE								
	For Road surface								

	Infront of navodaya kishore Kendra vidyalaya to dead end (2nd main road varadaraja swamy badavane)	Sqm	1	456.50	5.55		2533.58		
	2nd cross (right side shiva sidhi house)	Sqm	1	264.50	4.80		1269.60		
		Sqm	1	35.20	4.00		140.80		
		Sqm	1	39.60	3.90		154.44		
		Sqm	1	46.20	3.90		180.18		
	Basic rate							9.00	
	Area weightage 6%							0.54	
	Total						**15193.14**	**9.54**	**144942.52**
18	KSRRB M500-19. Providing and laying bituminous concrete using crushed aggregates of specified grading,premixed with bituminous binder and filler,transporting the hot mix to work site,laying with a paver finisher to the required grade, level and alignment,rolling with smooth wheeled,vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No.500.9 complete in all respects complete as per specifications. using 40/60 TPH capacity H.M.P with mechanical Paver Gr-II(30mm to 45mm) with 5.4% CRMB 55 (P.No.165- I.No.21.23.6)								
	SRINIDHI LAYOUT								
	8th 'A Main Road	Cum	1	112.20	5.50	0.04	24.68		
		Cum	1	90.20	4.70	0.04	16.96		
	8th 'B Main Road	Cum	1	103.40	4.60	0.04	19.03		
		Cum	1	112.20	5.30	0.04	23.79		
		Cum	1	82.94	5.10	0.04	16.92		
		Cum	1	86.90	5.30	0.04	18.42		
	1st cross (from MS palya main road to dead end) in front of green valley	Cum	1	140.80	5.00	0.04	28.16		
		Cum	1	170.50	4.80	0.04	32.74		
	Infront of dhanlakshmi store (right side of shimadri house)	Cum	1	27.50	5.60	0.04	6.16		
	Green valley appartment to dhanlakshmi store (main road, opposite to 1st cross) 8TH MAIN ROAD	Cum	1	155.10	5.20	0.04	32.26		
	VISHNAVI LAYOUT								
	2nd Cross Road	Cum	1	60.50	5.70	0.04	13.79		
	1st Cross Road	Cum	1	115.17	5.00	0.04	23.03		
	Main Road (from 1st Cross to dead end)	Cum	1	38.06	5.80	0.04	8.83		
	MARUTHI LAYOUT								
	Rajanna garden 6'A cross to prestige school road (all cross roads)	Cum	1	132.00	4.95	0.04	26.14		
	Cross road	Cum	1	38.50	4.30	0.04	6.62		
	5'A cross	Cum	1	64.90	4.70	0.04	12.20		
	12th cross	Cum	1	127.82	4.95	0.04	25.31		
	3'A cross (RHS only)	Cum	1	118.80	4.50	0.04	21.38		
	3'A cross (LHS)	Cum	1	142.45	4.60	0.04	26.21		
	2'A cross (RHS only)	Cum	1	124.30	4.50	0.04	22.37		
	2'A cross (LHS)	Cum	1	129.80	4.60	0.04	23.88		
		Cum	1	41.80	4.60	0.04	7.69		
	SINGAPURA PARADISE								

Infront of navodaya kishore Kendra vidyalaya to dead end (2nd main road varadaraja swamy badavane)	Cum	1	456.50	5.55	0.04	101.34		
2nd cross (right side shiva sidhi house)	Cum	1	264.50	4.80	0.04	50.78		
	Cum	1	35.20	4.00	0.04	5.63		
	Cum	1	39.60	3.90	0.04	6.18		
	Cum	1	46.20	3.90	0.04	7.21		
Profile correction & Pot Hole Filling	**No.*(1/2)*Length*(20%*Width)*Depth**							
SRINIDHI LAYOUT								
8th 'A Main Road	Cum	1	112.20	5.50	0.04	2.47		
	Cum	1	90.20	4.70	0.04	1.70		
8th 'B Main Road	Cum	1	103.40	4.60	0.04	1.90		
	Cum	1	112.20	5.30	0.04	2.38		
	Cum	1	82.94	5.10	0.04	1.69		
	Cum	1	86.90	5.30	0.04	1.84		
1st cross (from MS palya main road to dead end) in front of green valley	Cum	1	140.80	5.00	0.04	2.82		
	Cum	1	170.50	4.80	0.04	3.27		
Infront of dhanlakshmi store (right side of shimadri house)	Cum	1	27.50	5.60	0.04	0.62		
Green valley appartment to dhanlakshmi store (main road, opposite to 1st cross) 8TH MAIN ROAD	Cum	1	155.10	5.20	0.04	3.23		
VISHNAVI LAYOUT								
2nd Cross Road	Cum	1	60.50	5.70	0.04	1.38		
1st Cross Road	Cum	1	115.17	5.00	0.04	2.30		
Main Road (from 1st Cross to dead end)	Cum	1	38.06	5.80	0.04	0.88		
MARUTHI LAYOUT								
Rajanna garden 6'A cross to prestige school road (all cross roads)	Cum	1	132.00	4.95	0.04	2.61		
Cross road	Cum	1	38.50	4.30	0.04	0.66		
5'A cross	Cum	1	64.90	4.70	0.04	1.22		
12th cross	Cum	1	127.82	4.95	0.04	2.53		
3'A cross (RHS only)	Cum	1	118.80	4.50	0.04	2.14		
3'A cross (LHS)	Cum	1	142.45	4.60	0.04	2.62		
2'A cross (RHS only)	Cum	1	124.30	4.50	0.04	2.24		
2'A cross (LHS)	Cum	1	129.80	4.60	0.04	2.39		
	Cum	1	41.80	4.60	0.04	0.77		
SINGAPURA PARADISE								
Infront of navodaya kishore Kendra vidyalaya to dead end (2nd main road varadaraja swamy badavane)	Cum	1	456.50	5.55	0.04	10.13		
	Cum	1	264.50	4.80	0.04	5.08		

	2nd cross (right side shiva sidhi house)	Cum	1	35.20	4.00	0.04	0.56		
		Cum	1	39.60	3.90	0.04	0.62		
		Cum	1	46.20	3.90	0.04	0.72		
	Basic rate							8502.00	
	Area weightage 6%							510.12	
	Total						**668.50**	**9012.12**	**6024584.05**
19	Providing Plastic to Bituminous concrete @ 8%								
	8% OF BC	Kg		8%	668.50	117.00	**6257.14**		
	Basic rate							27.00	
	Area weightage 6%							1.62	
	Total						**6257.14**	**28.62**	**179079.38**
20	KSRRB M800-13.Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface:- Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. (P.No.185-I.No.24.15)								
	SRINIDHI LAYOUT								
	8th 'A Main Road	Sqm	1	112.20	0.10		11.22		
		Sqm	1	90.20	0.10		9.02		
	8th 'B Main Road	Sqm	1	103.40	0.10		10.34		
		Sqm	1	112.20	0.10		11.22		
		Sqm	1	82.94	0.10		8.29		
		Sqm	1	86.90	0.10		8.69		
	1st cross (from MS palya main road to dead end) in front of green valley	Sqm	1	140.80	0.10		14.08		
		Sqm	1	170.50	0.10		17.05		
	Infront of dhanlakshmi store (right side of shimadri house)	Sqm	1	27.50	0.10		2.75		
	Green valley appartment to dhanlakshmi store (main road, opposite to 1st cross) 8TH MAIN ROAD	Sqm	1	155.10	0.10		15.51		
	VISHNAVI LAYOUT								
	2nd Cross Road	Sqm	1	60.50	0.10		6.05		
	1st Cross Road	Sqm	1	115.17	0.10		11.52		
	Main Road (from 1st Cross to dead end)	Sqm	1	38.06	0.10		3.81		
	MARUTHI LAYOUT								
	Rajanna garden 6'A cross to prestige school road (all cross roads)	Sqm	1	132.00	0.10		13.20		
	Cross road	Sqm	1	38.50	0.10		3.85		
	5'A cross	Sqm	1	64.90	0.10		6.49		
	12th cross	Sqm	1	127.82	0.10		12.78		
	3'A cross (RHS only)	Sqm	1	118.80	0.10		11.88		
	3'A cross (LHS)	Sqm	1	142.45	0.10		14.25		
	2'A cross (RHS only)	Sqm	1	124.30	0.10		12.43		
	2'A cross (LHS)	Sqm	1	129.80	0.10		12.98		
		Sqm	1	41.80	0.10		4.18		
	SINGAPURA PARADISE								

	Infront of navodaya kishore Kendra vidyalaya to dead end (2nd main road varadaraja swamy badavane)	Sqm	1	456.50	0.10		45.65		
	2nd cross (right side shiva sidhi house)	Sqm	1	264.50	0.10		26.45		
		Sqm	1	35.20	0.10		3.52		
		Sqm	1	39.60	0.10		3.96		
		Sqm	1	46.20	0.10		4.62		
	Basic rate							512.00	
	Area weightage 6%							30.72	
	Total						**305.78**	**542.72**	**165955.09**
21	KSRRB M200-24. Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials stacking serviceable and unserviceable materials seperately complete as per specifications. MORTH Specification No. 202(P.No.138- I.No.18.47)								
	VISHNAVI LAYOUT								
	4th Cross Road	Cum	1	69.50	5.80	0.15	60.47		
	3rd Cross Road	Cum	1	50.20	5.50	0.15	41.42		
	Basic rate							781.00	
	Area weightage 6%							46.86	
	Total						**101.88**	**827.86**	**84342.38**
22	KSRRB M600-1. Construction of dry lean cement concrete mix CC1:5:10 with OPC cement @160Kgs, with 25mm and down size graded granite metal coarse aggregate at 0.86cum and fine aggregates @ 0.58cum Sub- base over a prepared sub-grade with (coarse and fine aggregate conforming to IS: 383) aggregate cement ratio not to exceed 15:1. Aggregate gradation after blending to be as per Table 600-1, cement content not to be less than 160 kg/ cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver with electronic sensor, compacting with 8-10 tonnes vibratory roller, finishing and curing complete as per specifications.MORTH Specification No. 601, Item No. 22.1, Pg No. 176								
	VISHNAVI LAYOUT								
	4th Cross Road	Cum	1	69.50	5.80	0.15	60.47		
	3rd Cross Road	Cum	1	50.20	5.50	0.15	41.42		
	Basic rate							3761.00	
	Area weightage 6%							225.66	
	Total						**101.88**	**3986.66**	**406160.92**
23	Cement concrete pavement.Construction of un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 design mix M20/M30 , with 25mm and down size graded granite metal coarse aggregates and fine aggregtes , with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008 , mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints including groove cutting charges, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specifications. - M30 (at 360Kg per cum coarse aggregate @ 0.69cum and fine aggregate @ 0.46cum) Pg No.177 Item No.22.6.1								
	VISHNAVI LAYOUT								
	4th Cross Road	Cum	1	69.50	5.80	0.15	60.47		
	3rd Cross Road	Cum	1	50.20	5.50	0.15	41.42		
	Sub Total						**101.88**		
	Consider 5% qty for camber correction						**5.09**		
	Basic rate							5866.00	
	Area weightage 6%							351.96	
	Total						**106.97**	**6217.96**	**665160.05**

24	KSRRB M800-13.Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Conrete Surface:- Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms and 2Ltr of Primer per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. (P.No.192-I.No.24.57)								
	VISHNAVI LAYOUT								
	4th Cross Road	Sqm	1	69.50	0.10		6.95		
	3rd Cross Road	Sqm	1	50.20	0.10		5.02		
	Basic rate							647.00	
	Area weightage 6%							38.82	
	Total						11.97	685.82	8209.27
								TOTAL AMOUNT	**8793773.20**
								Preparation of DPR And Project management Consultancy Charges(2% of estimated cost)	200000
								Tender Premium 10% of estimated Cost	1000000
								Miscellenious and rounding	6227
								TOTAL AMOUNT	**10000000**
									RUPEES ONE CRORE ONLY

CERTIFICATE:

1) The work spot has been inspected and found to be necessary
2) The work spot comes under B.B.M.P
3) The provisions made in the estimate are necessary and minimum
4) The estimate is based on C.S.R of 2016-2017

ADMINISTRATIVE APPROVAL
Accorded For Rs. One crore only
Head of A/c P-3111
Div. Ref. No. 128/17-18 Date 19/12/17
AE
EE(BTP) 19/12

Technical Sanction
Accorded For Rs. One Crore only
Head of A/C P-3111
CER NO TS/496/17-18 Dt: 22.12.17
TA
CE (YNK)